

Title (en)
CLOSED CIRCUIT FORCED HOT AIR INTRAOPERATIVE PATIENT WARMER WITH IMPROVED STERILITY

Title (de)
INTRAOPERATIVER ZWANGSBELÜFTUNGSPATIENTENWÄRMER MIT GESCHLOSSENEM KREISLAUF UND VERBESSERTER STERILITÄT

Title (fr)
DISPOSITIF DE RÉCHAUFFEMENT PEROPÉRATOIRE DES PATIENTS À AIR CHAUD PULSÉ EN CIRCUIT FERMÉ PRÉSENTANT UNE STÉRILITÉ AMÉLIORÉE

Publication
EP 3422906 A1 20190109 (EN)

Application
EP 17760575 A 20170228

Priority

- US 201615056120 A 20160229
- US 201615334507 A 20161026
- US 2017019847 W 20170228

Abstract (en)
[origin: US9504601B1] A system for a closed circuit forced hot air warmer of patient beds and blankets with improved sterility has a patient mattress or blanket microprocessor controlled warmer that circulates heated air in a closed system without releasing warmed air into the area surrounding the patient or into the operating room. The system helps to avoid the exposure of patients and hospital workers in the operating room to possible infecting microbes carried in unsterile turbulent air currents related to the release of air from non-closed systems. The machinery and flexible hoses of the system are initially sterilized by a microprocessor controlled antimicrobial mist generator. The system does not discharge jets of warmed air due to the closed circuit arrangement. Turbulent air flow previously produced in the vicinity of the patient by high velocity air jets is eliminated. An ambient, quiescent condition accorded by closed circuit heating prevents infection of patients and operating room personnel by microbe migration.

IPC 8 full level
A47C 21/00 (2006.01); **A47C 21/04** (2006.01); **A61F 7/00** (2006.01); **A61L 2/20** (2006.01); **A61L 2/24** (2006.01); **A61L 9/14** (2006.01)

CPC (source: EP US)
A61F 7/0085 (2013.01 - US); **A61F 7/0097** (2013.01 - EP US); **A61L 2/00** (2013.01 - US); **A61L 2/22** (2013.01 - EP US); **A61L 2/26** (2013.01 - EP US); **B01D 46/00** (2013.01 - EP US); **A61F 2007/0055** (2013.01 - EP US); **A61F 2007/0094** (2013.01 - US); **A61L 9/16** (2013.01 - EP US); **A61L 2202/15** (2013.01 - EP US); **A61L 2209/14** (2013.01 - EP US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
US 9504601 B1 20161129; CA 3016038 A1 20170908; CA 3016038 C 20210525; EP 3422906 A1 20190109; EP 3422906 A4 20190828; US 2017246030 A1 20170831; US 9901483 B2 20180227; WO 2017151556 A1 20170908

DOCDB simple family (application)
US 201615056120 A 20160229; CA 3016038 A 20170228; EP 17760575 A 20170228; US 201615334507 A 20161026; US 2017019847 W 20170228